MONTHLY WEATHER REVIEW.

Editor: Prof. CLEVELAND ABBE.

Vol. XXVI.

JUNE, 1898.

No. 6

INTRODUCTION.

The Monthly Weather Review for June, 1898, is based on ball, Superintendent of the United States Life-Saving Servabout 2,940 reports from stations occupied by regular and ice; and Commander J. E. Craig, Hydrographer, United voluntary observers, classified as follows: 147 from Weather States Navy. Bureau stations; numerous special river stations; 32 from post surgeons, received through the Surgeon General, United vision of Prof. Cleveland Abbe. States Army; 2,583 from voluntary observers; 96 received through the Southern Pacific Railway Company; 29 from registers at regular Weather Bureau stations are all set to Life-Saving stations, received through the Superintendent seventy-fifth meridian or eastern standard time, which is United States Life-Saving Service; 31 from Canadian statexactly five hours behind Greenwich time; as far as practions; 20 from Mexican stations; 7 from Jamaica, W. I. ticable, only this standard of time is used in the text of the International simultaneous observations are received from a few stations and used, together with trustworthy newspaper extracts and special reports.

Special acknowledgment is made of the hearty cooperation of Prof. R. F. Stupart, Director of the Meteorological Service of the Dominion of Canada; Mr. Curtis J. Lyons, Meteorologist to the Hawaiian Government Survey, Honolulu; Dr. Mariano Bárcena, Director of the Central Meteorological and time by voluntary observers or newspaper correspondents are Magnetic Observatory of Mexico; Mr. Maxwell Hall, Gov-sometimes corrected to agree with the ernment Meteorologist, Kingston, Jamaica; Capt. S. I. Kim-wise, the local meridian is mentioned.

The Review is prepared under the general editorial super-

Attention is called to the fact that the clocks and self-Review, since all Weather Bureau observations are required to be taken and recorded by it. The standards used by the public in the United States and Canada and by the voluntary observers are believed to generally conform to the modern international system of standard meridians, one hour apart, beginning with Greenwich. Records of miscellaneous phenomena that are reported occasionally in other standards of sometimes corrected to agree with the eastern standard; other-

FORECASTS AND WARNINGS.

By Prof. F. H. Bigelow, in charge of Forecast Division.

But one general wind storm occurred in the interior of the 4th and 5th special wind forecasts were telegraphed to stations remarks relative to winds and forecasts are given below. Thun-| northeast winds diminishing in force. derstorms were quite frequent and severe and generally forecast successfully. Slight frosts occurred at extreme northern and Rocky Mountain stations. The river forecasts of ap-east; 4th, Eastport, 32 northeast; 4th to 5th, Atlantic City, proaching low water were of special value, preliminary to the 38 northwest; Cape Henry, 39 northeast; Hatteras, 42 north; light navigation of the summer season. The areas of high and 25th, New York, 40 southeast. low pressure were not remarkable for great barometric departures.

The following special articles by the respective members of the Forecast Division give all that need be said with regard to a month whose meteorology was rather tamer than usual.

WIND SIGNALS.

During the month no signals were displayed on the lower Lakes, two displays for storms were made on the upper Lakes, and the information signal was displayed once on the south 1st and 2d the barometer was relatively low near Nantucket, New England coast.

With the exception of moderate gales at Cleveland of 36 miles per hour, on the 14th and 19th, lasting from an hour to an hour and a half, and several gusts of a few minutes duration, due generally to thunderstorms, no high winds occurred on the lower Lakes.

On the 1st, information signals for brisk northeast winds were displayed on the south New England coast, and on the on the middle and north Atlantic coasts. The barometric

country and none on the Atlantic or Pacific coasts. Detailed on the middle Atlantic and south New England coast for high

Moderately high winds were reported as follows:

1st, Nantucket, 36 northeast; 3d to 4th, Nantucket, 35 north-

On the 24th at 10:30 a.m., southwest storm signals were ordered for Lakes Michigan and Huron and the eastern portion of Lake Superior; a maximum wind of 50 miles an hour from the southwest occurred over the southern end of Lake Michigan and a maximum of 38 miles southwest at Marquette on the 24th.

On the 28th a southeast storm signal was displayed at Marquette, well in advance of a wind of 32 miles from the south.

The month of June presented few instances of high winds on the Atlantic and Gulf coasts, or on the Lakes. On the Mass., while an area of high pressure covered the St. Lawrence Valley. Maximum velocities of 30 to 40 miles occurred on the southeast New England coast, but the winds were steady and not unfavorable to shipping. Quite a similar condition occurred on the 4th and 5th, when a high area extended from New England to the South Atlantic States, giving maximum velocities of 30 to 40 miles at exposed places